
APPENDIX B

INDEX

A

Absorbed dose

- calculation 6-34, 6-39, 7-8, 7-10, 7-12
- definition 6-2, 6-4, 6-32, 6-34, 7-10, 10-2
- following dermal contact with soil, sediment, or dust 6-39, 6-41 to 6-43, 7-16
- following dermal contact with water 6-34, 6-39, 7-16
- radiation 10-1, 10-2, 10-6
- toxicity value 7-10, 7-16, 8-5, A-1, A-2

Absorption adjustment

- dermal exposures 8-5, A-1, A-2
- medium of exposure 8-5, A-3, A-4

Absorption efficiency

- default assumptions 6-34, 6-39, A-2 to A-4
- dermal 6-34, 6-39
- general 6-2, 7-10, 7-20, 8-5, 8-10

Acceptable daily intakes 7-1, 7-2, 7-6

Activity at time t 10-1

Activity patterns 6-2, 6-6, 6-7, 6-24, 7-3

Acute exposures. *See* Exposure -- short-term

Acute toxicants 6-23, 6-28

ADIs. *See* Acceptable daily intakes

Administered dose 6-2, 6-4, 7-1, 7-2, 7-10, 8-2, 8-5, A-1 to A-4

Agency for Toxic Substances and Disease Registry 1-8, 2-1, 2-3, 2-4, 2-8 to 2-11, 6-1, 6-17, 7-14, 8-1, 8-15, 8-24

Air data collection

- and soil 4-10
- background sampling 4-9
- concentration variability 4-9

emission sources 4-15

- flow 4-8
- meteorological conditions 4-15, 4-20
- monitoring 4-8, 4-9, 4-14
- radionuclides 10-11
- sample type 4-19
- sampling locations 4-19
- short-term 4-15
- spatial considerations 4-15
- temporal considerations 4-15, 4-20
- time and cost 4-21

Air exposure

- dispersion models 6-29
- indoor modeling 6-29
- outdoor modeling 6-29
- volatilization 6-29

Analytes 4-2, 5-2, 5-5, 5-7, 5-10, 5-27

Analytical methods

- evaluation 5-5 to 5-7
- radionuclides 10-12, 10-13
- routine analytical services 4-22
- special analytical services 4-3, 4-22

Animal studies 7-12, 10-28, 10-29, 10-33

Applicable or relevant and appropriate requirement 2-2, 2-7, 2-8, 8-1, 10-8 to 10-10

Applied dose 6-2, 6-4

ARAR. *See* Applicable or relevant and appropriate requirement

A(t). *See* Activity at time t

ATSDR. *See* Agency for Toxic Substances and Disease Registry

Averaging time 6-23

B

Background

- anthropogenic 4-2, 4-5
- comparison to site related contamination 4-9, 4-10, 4-18
- defining needs 4-5 to 4-10, 6-29, 6-30
- information useful for data collection 4-1
- localized 4-5
- naturally occurring 4-2, 4-5, 8-25, 10-14
- sampling 4-5 to 4-10, 10-14
- ubiquitous 4-5

BCF. *See* Bioconcentration factor

Bench scale tests 4-3

Benthic oxygen conditions 4-7

Bioconcentration 4-11, 6-31, 6-32

Bioconcentration factor 6-1, 6-12, 6-31, 6-32

Biota sampling 4-7, 4-10, 4-16

Blanks

- evaluation 5-17
- field 4-22, 4-23, 5-17, 10-20
- laboratory 4-22, 5-13, 5-17
- laboratory calibration 5-17
- laboratory reagent or method 5-17
- trip 4-22, 5-17

Body weight as an intake variable 6-22, 6-23, 6-39, 7-8, 7-12, 10-26, 10-33

Bulk density 4-7, 4-12

C

Cancer risks

- extrapolating to lower doses 7-11, 7-12
- linear low-dose equation 8-6
- multiple pathways 8-16
- multiple substances 8-12
- one-hit equation 8-11
- radiation 10-28 to 10-32
- summation of 8-12, 8-16

Carcinogenesis 7-10, 10-28 to 10-32

Carcinogen Risk Assessment Verification Endeavor 7-1, 7-13

Carcinogens 5-8, 5-21, 6-23, 7-10, 8-6, 10-30, 10-33

CDI. *See* Chronic daily intake

CEAM. *See* Center for Exposure Assessment Modeling

Center for Exposure Assessment Modeling 6-1, 6-25, 6-31

CERCLA. *See* Comprehensive Environmental Response, Compensation, and Liability Act of 1980

CERCLA Information System 2-4

CERCLIS. *See* CERCLA Information System

Checklist for manager involvement 9-14 to 9-17

Chemicals of potential concern

- definition 5-2
- listing 5-20
- preliminary assessment 5-8
- radionuclides 10-21
- reducing 5-20 to 5-24
- summary 5-24 to 5-27

Chronic daily intake 6-1, 6-2, 6-23, 7-1, 8-1, 8-6 to 8-11

CLP. *See* Contract Laboratory Program

Combustible gas indicator 5-6

Common laboratory contaminants 5-2, 5-3, 5-13, 5-16, 5-17

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 1-1, 1-3, 2-1 to 2-4

Concentration-toxicity screen 5-20, 5-23

Conceptual model 4-5, 4-10

Contact rate 6-2, 6-22

Contract Laboratory Program

- applicability to radionuclides 10-16, 10-17, 10-20, 10-21

definition 4-2
 routine analytical services 4-22, 5-5, 5-7, 5-15, 5-18, 5-20
 special analytical services 4-3, 4-22, 5-5, 5-7 to 5-10, 5-18 to 5-20
 statements of work 5-5

Contract-required detection limit. *See* Detection limit

Contract-required quantitation limit. *See* Quantitation limit

CRAVE. *See* Carcinogen Risk Assessment Verification Endeavor

CRDL. *See* Contract-required detection limit

Critical study. *See* Reference dose

Critical toxicity effect. *See* Reference dose

CRQL. *See* Contract-required quantitation limit

Curie 10-2, 10-4, 10-6

D

D. *See* Absorbed dose -- radiation

Data

codes 5-11 to 5-16
 positive 5-2
 qualifiers 5-11 to 5-16

Data quality objectives 3-4, 4-1 to 4-5, 4-19, 4-24, 10-14

DCF. *See* Dose conversion factor

Decay products 10-2, 10-7, 10-21, 10-24

Decision Summary 9-3

Declaration 9-3

Dermal

absorption efficiency 6-34, 6-39
 contact with soil, sediment, or dust 6-39, 6-41 to 6-43, A-2
 contact with water 6-34, 6-37 to 6-39, A-2

exposure 4-10, 4-11, 4-14, 6-34, 6-37 to 6-39, 6-43, 8-5, A-2
 external radiation exposure 10-22, 10-23, 10-25, 10-26
 toxicity values 7-16

Detection frequency 5-20, 5-22

Detection limits

contract-required 5-1, 5-2, 5-8
 definition 5-1, 5-2, 5-8
 evaluation 4-3 to 4-5, 5-7 to 5-11, 5-20, 6-31
 instrument 4-1, 5-1, 5-7
 limitations to 4-15, 4-22, 5-8
 method 4-22, 5-1, 5-7
 radionuclides 10-17 to 10-20

Diffusivity 6-12

Dissolved oxygen 4-7

DL. *See* Detection limit

Documentation. *See* Preparing and reviewing the baseline risk assessment

Dose

absorbed vs administered 6-4, 7-10, 8-2, A-1 to A-3
 absorption efficiency A-1 to A-3
 response curve 7-12
 response evaluation 7-1, 7-2, 7-11, 7-12

Dose conversion factor 10-1, 10-2, 10-24, 10-25, 10-26

Dose equivalent

committed 10-1, 10-2, 10-7, 10-24, 10-25, 10-26
 effective 10-1, 10-2, 10-7, 10-24, 10-25, 10-26

DQO. *See* Data quality objectives

Dry weight 4-7

Dust

exposure 6-39, 6-43
 fugitive dust generation 4-3, 4-5, 4-15, 6-29
 transport indoors 6-29

E

E. *See* Exposure level

ECAO. *See* Environmental Criteria and Assessment Office

Emission sampling
rate 4-5, 4-7, 4-14
strength 4-7

Endangerment Assessment Handbook 1-1, 2-9

Endangerment assessments 2-1, 2-8

Environmental Criteria and Assessment Office 7-1,
7-15, 7-16, 7-19, 8-1, 8-5, A-1

Environmental Evaluation Manual 1-1, 1-11, 2-9, 4-16

Environmental Photographic Interpretation Center 4-4

EPIC. *See* Environmental Photographic Interpretation Center

Epidemiology
site-specific studies 2-10, 8-22, 8-24
toxicity assessment 7-3, 7-5

Essential nutrients 5-23

Estuary sampling 4-7, 4-13, 4-14

Exposure

averaging time 6-23
characterization of setting 6-2, 6-5 to 6-8
definition 6-2, 8-2
event 6-2
expressed as absorbed doses 6-34, 6-39, A-1
for dermal route 6-34, 6-39, 6-41 to 6-43
frequency/duration 6-22
general considerations 6-19 to 6-24
level 8-1
long-term 6-23
parameter estimation 6-19 to 6-23
pathway-specific exposures 6-32 to 6-47
point 6-2, 6-11
potentially exposed populations 6-6 to 6-8
radionuclides *vs* chemicals 10-22
route 6-2, 6-11, 6-17, 6-18, 8-2, A-1
short-term 6-23, 8-11, 10-25, 10-28, 10-30

Exposure assessment

definition 1-6, 1-7, 6-1, 6-2, 8-2
intake calculations 6-32 to 6-47
objective 6-1
output for dermal contact with contaminated soil 6-39
output for dermal exposure to contaminated water 6-34
preliminary 4-3, 4-10 to 4-16
radiation 10-22 to 10-27
spatial considerations 6-24 to 6-26

Exposure concentrations

and the reasonable maximum exposure 6-19
in air 6-28, 6-29
in food 6-31, 6-32
in ground water 6-26, 6-27
in sediment 6-30
in soil 6-27, 6-28
in surface water 6-29, 6-30
summarizing 6-32, 6-33, 6-50, 6-52

Exposure pathways

components 6-8, 6-9
definition 6-2, 8-2
external radiation exposure 10-22, 10-23, 10-25, 10-26
identification 6-8 to 6-19
multiple 6-47
summarizing 6-17, 6-20

F

Fate and transport assessment 6-11, 6-14 to 6-16.
See also Exposure assessment

Field blanks. *See* Blanks

Field investigation team 4-1, 4-16, 4-20, 4-24, 5-1, 5-2

Field sampling plan 4-1, 4-2, 4-23, 4-24, 10-15

Field screen 4-11, 4-20, 4-21, 5-5, 5-6, 5-24

First-order analysis 8-20

FIT. *See* Field investigation team

Five-year review 2-3, 2-5

Food chain 2-3, 4-7, 4-10, 4-16, 6-31, 6-32

Fraction organic content of soil 4-7

Frequency of detection. *See* Detection frequency

FS. *See* Remedial investigation/feasibility study

FSP. *See* Field sampling plan

G

Ground-water data collection

and air 4-13

and soil 4-12

filtered *vs* unfiltered samples 4-12, 6-27

hydrogeologic properties 4-12

sample type 4-19

transport route 4-11

well location and depth 4-12

Grouping chemicals by class 5-21, 10-21

H

HADs. *See* Health Assessment Documents

HAs. *See* Health Advisories

Half-life 6-12, 10-2

Hazard identification 1-6, 7-1, 7-2, 10-28 to 10-30

Hazard index

chronic 8-13

definition 8-1, 8-2

multiple pathways 8-16, 8-17

multiple substances 8-12, 8-13

noncancer 8-12, 8-13

segregation 8-14, 8-15

short-term 8-13, 8-14

subchronic 8-13, 8-14

Hazard quotient 8-2, 8-11

Hazard Ranking System 2-5, 2-6, 4-1, 4-4

H_E. *See* Dose equivalent

H_{E,50}. *See* Dose equivalent

Head measurements 4-7

Health Advisories 2-10, 7-9, 7-10, 8-13

Health and Environmental Effects Documents 7-1, 7-14, A-1

Health and Environmental Effects Profiles 7-1, 7-14, A-1

Health Assessment Documents 7-1, 7-14, A-1

Health Effects Assessments 7-1, 7-14, A-1

Health Effects Assessment Summary Tables 7-1, 7-14

Health physicist 10-3, 10-21

HEAs. *See* Health Effects Assessments

HEAST. *See* Health Effects Assessment Summary Tables

HEEDs. *See* Health and Environmental Effects Documents

HEEPs. *See* Health and Environmental Effects Profiles

Henry's law constant 6-12

HI. *See* Hazard index

HNu organic vapor detector 5-6

Hot spots 4-10 to 4-12, 4-17, 4-19, 5-27, 6-24, 6-28

HQ. *See* Hazard quotient

HRS. *See* Hazard Ranking System

H_T. *See* Dose equivalent

H_{T,50}. *See* Dose equivalent

Hydraulic gradient 4-7

I

IARC. *See* International Agency for Research on Cancer

IDL. *See* Instrument detection limit

Ingestion

of dairy products 4-16, 6-47, 6-48

of fish and shellfish 4-3, 4-11, 4-14, 4-15, 4-16, 6-43, 6-45

of ground water 6-34, 6-35

of meat 4-15, 4-16, 6-47, 6-48

of produce 4-16, 6-43, 6-46, 6-47

of soil, sediment, or dust 6-39, 6-40

of surface water 4-14, 6-34, 6-35

while swimming 4-14, 6-34, 6-36

Instrument detection limit. *See* Detection limit

Inhalation 6-43, 6-44

Intake 6-2, 6-4, 6-19, 6-21, 8-2, 10-26

Integrated Risk Information System 7-1, 7-2, 7-6, 7-12 to 7-15, 8-1, 8-2, 8-7, 8-8, 10-33

International Agency for Research on Cancer 7-11

International System of Units 10-1

Ionizing radiation. *See* Radionuclides, radiation

IRIS. *See* Integrated Risk Information System

K

K_d 6-12

K_{oc} 6-12

K_{ow} 6-12, 6-31

Kriging 6-19

L

Land use

and risk characterization 8-10, 8-20, 8-26
current 6-6
future 6-7

Lentic waters 4-14

LET. *See* Linear energy transfer

Level of effort 1-6 to 1-8, 3-3

Life history stage 4-7

Lifetime average daily intake 6-2, 6-23, 8-4

Linear energy transfer 10-1, 10-2, 10-28, 10-29, 10-31

Linearized multistage model 7-12, 8-6

Lipid content 4-7, 10-14

LLD. *See* Lower limit of detection

LOAEL. *See* Lowest-observed-adverse-effect- level

Lotic waters 4-13, 4-14

Lower limit of detection 10-1

Lowest-observed-adverse-effect-level 7-1, 7-2, 7-7, 8-1

M

Management tools 9-1, 9-14, 10-1, 10-34

Maximum contaminant levels 1-8, 5-8

MCLs. *See* Maximum contaminant levels

MDL. *See* Method detection limit

Media of concern

air 4-14
biota 4-15
ground water 4-12
sampling 4-2, 4-3, 4-10 to 4-16
soil 4-11
surface water/sediments 4-13

Metals

absorption by gastrointestinal tract A-2, A-3
default assumptions for A-2

Method detection limit. *See* Detection limit

MeV. *See* Million electron volts

MF. *See* Modifying factor

Million electron volts 10-1, 10-5

Modeling 4-3 to 4-8, 5-8, 5-22, 5-27, 6-25, 6-26, 8-18 to 8-20

Modifying factor 7-7, 7-21, 8-4, 8-8, 10-1, 10-2, 10-6

Monte Carlo simulation 8-19, 8-20

Multistage model. *See* Linearized multistage model

N

N. *See* Dose equivalent

National Oceanographic and Atmospheric Administration 6-1, 6-6

National Oil and Hazardous Substances Pollution Contingency Plan 1-1, 2-2, 2-4, 2-5

National Priorities List 2-3, 2-5, 2-6, 10-1

National Response Center 2-4

National Technical Guidance Studies 6-1

NCP. *See* National Oil and Hazardous Substances Pollution Contingency Plan

ND. *See* Non-detect

NOAA. *See* National Oceanographic and Atmospheric Administration

NOAEL. *See* No-observed-adverse-effect-level

Noncancer hazard indices. *See* Hazard index

Noncancer hazard quotient. *See* Hazard quotient

Noncarcinogenic threshold toxicants 7-6

Non-detects 5-1, 5-2, 5-7, 5-10, 5-11, 5-15, 5-16

No-observed-adverse-effect-level 7-1, 7-2, 7-7, 8-1

Normalized exposure rate 6-4, 8-2, A-2

NPL. *See* National Priorities List

NRC. *See* Nuclear Regulatory Commission

NTGS. *See* National Technical Guidance Studies

Nuclear Regulatory Commission 8-1, 10-8

Nuclear transformation 10-2

O

OAQPS. *See* Office of Air Quality Planning and Standards

OERR. *See* Office of Emergency and Remedial Response

Office of Air Quality Planning and Standards 6-1

Office of Emergency and Remedial Response 1-1

Office of Radiation Programs 10-3, 10-10, 10-14, 10-24 to 10-26

Operable units 1-8, 1-9, 3-1, 3-2, 5-24

Oral absorption A-2, A-3

Oral cancer potency factor adjustment A-3

Oral reference dose adjustment A-2

Organic carbon content 4-7, 4-12, 5-5

Organic vapor analyzer 5-6

OVA. *See* Oxygen vapor analyzer

Oxygen-deficient atmosphere 5-6

P

PA. *See* Preliminary assessment/site inspection

Partition coefficient 4-7, 6-31, 6-32

PA/SI. *See* Preliminary assessment/site inspection

PC. *See* Permeability constant

PE. *See* Performance evaluation

Performance evaluation 5-1, 5-5

Permeability constant 6-34, 10-26

Persistence 4-2, 5-21, 6-4, 6-23, 6-24

pH 4-7

PHE. *See* Public health evaluation

Porosity 4-7, 4-12

PQL. *See* Practical quantitation limit

Practical quantitation limit 5-1

Preliminary assessment/site inspection 2-4, 2-5, 2-6, 4-2, 4-4, 6-5

Preliminary remediation goals 1-3 to 1-5, 1-8, 8-1

Preparing and reviewing the baseline risk assessment
 addressing the objectives 9-1, 9-2
 communicating the results 9-1, 9-2

documentation tools 9-1 to 9-8
other key reports 9-3
review tools 9-3, 9-9 to 9-14
scope 9-2, 9-3

PRGs. *See* Preliminary remediation goals

Primary balancing criteria 1-9

Proxy concentration 5-10

Public health evaluation 1-11

Q

Q. *See* Dose equivalent

QAPjP. *See* Quality assurance project plan

QA/QC. *See* Quality Assurance/Quality Control

QL. *See* Quantitation limit

Qualifiers. *See* Data

Quality assurance project plan 4-1, 4-2, 4-23

Quality assurance/quality control 3-4, 4-1, 4-3, 5-1, 5-29

Quality factor 10-2, 10-6

Quantitation limit

compared to health-based concentrations 5-2, 5-5, 5-7, 5-8, 5-11
contract-required 5-1, 5-2, 5-8
definitions 5-2, 5-5, 5-8
evaluation 5-1 to 5-9, 10-20
high 5-10
radionuclides 10-17 to 10-20
sample 5-8
strategy 4-21
unavailability 4-3, 5-10

R

RA. *See* Remedial action

Radiation. *See* Radionuclides, radiation

Radiation advisory groups

International Commission on Radiation
Protection 10-3, 10-9, 10-28

National Academy of Sciences 10-28, 10-29

National Council on Radiation Protection and
Measurements 10-9, 10-28

United Nations Scientific Committee on the
Effects of Atomic Radiation 10-28, 10-29,
10-30

Radiation detection instruments

gas proportional counters 10-12, 10-13
Geiger-Mueller (G-M) counters 10-11, 10-12
ionization chambers 10-11 to 10-13
scintillation detectors 10-11 to 10-13
solid-state detectors 10-12, 10-13

Radiation units

becquerel 10-1, 10-2, 10-4, 10-6
curie 10-1, 10-2, 10-4, 10-6
picocurie 10-1
rad 10-2, 10-6
rem 10-2
roentgen 10-2, 10-6
sievert 10-1, 10-2, 10-6
working level 10-7
working level month 10-7

-
- Radionuclides, radiation
- alpha particles 10-4, 10-5, 10-28
 - beta particles 10-4, 10-5, 10-28
 - decay products 10-2, 10-7, 10-21, 10-24
 - definition 10-2
 - external 10-2
 - half-life 10-2
 - internal 10-2
 - ionizing 10-2
 - linear energy transfer 10-2, 10-28, 10-29, 10-31
 - lower limit of detection 10-17, 10-20
 - neutrons 10-4
 - photons 10-4, 10-5, 10-28
 - positrons 10-4
 - quality factors 10-2, 10-6, 10-29
 - radioactive decay 10-2, 10-2
 - radon decay products 10-7
 - regulatory agencies 10-8, 10-9
 - relative biological effectiveness 10-1, 10-6, 10-29
 - risk characterization 10-32 to 10-34
 - toxicity assessment 10-27 to 10-32
 - developmental 7-1, 7-6, 7-9, 8-2
 - inhalation 7-8
 - oral 7-6, 7-7
 - subchronic 7-1, 7-2, 7-6, 7-8, 7-9, 8-2, 8-9, 8-14
 - verified 7-10
- Regional Radiation Program Managers 10-3, 10-10
- Relative biological effectiveness 10-1, 10-6, 10-29
- Release sources 6-10
- Remedial action 1-3, 1-8 to 1-10, 2-5, 2-7, 2-9, 3-1, 3-2, 6-8, 10-8
- Remedial action objectives 1-3, 1-8, 2-7
- Remedial design 2-5, 2-6, 2-9
- Remedial investigation/feasibility study 1-1 to 1-5, 1-8 to 1-10, 2-5 to 2-7, 3-1 to 3-3, 4-1 to 4-5, 4-23, 8-1
- Remedial project manager
- and background sampling 4-8
 - and elimination of data 5-2, 5-17, 5-20, 5-21
 - and ground-water sampling 4-13
 - and radiation 10-3
 - and reasonable maximum exposure 6-5
 - and scoping meeting 4-3
 - definition 1-2
 - management tools for 9-14 to 9-17
- Remedy selection 1-9, 2-5
- Resource Conservation and Recovery Act 2-7, 10-8
- Responsiveness Summary 9-3
- Reviewing the risk assessment. *See* Preparing and reviewing the baseline risk assessment
- RfD. *See* Reference dose
- RfD_{dt}. *See* Reference dose
- RfD_s. *See* Reference dose
- RI. *See* Remedial investigation/feasibility studies
- RI/FS. *See* Remedial investigation/feasibility study
-
- RAS. *See* Routine analytical services
- RBE. *See* Relative biological effectiveness
- RCRA. *See* Resource Conservation and Recovery Act
- RD. *See* Remedial design
- Reasonable maximum exposure
- and body weight 6-22, 6-23
 - and contact rate 6-22
 - and exposure concentration 6-19
 - and exposure frequency and duration 6-22
 - and risk characterization 8-1, 8-15, 8-16, 8-26
 - definition 6-1, 6-4, 6-5
 - estimation of 6-19 to 6-23, 8-15, 8-16
- Record of Decision 2-5, 9-3
- Redox potential 4-7
- Reference dose
- chronic 7-1, 7-2, 7-5, 8-1, 8-2, 8-8, 8-10, 8-13, A-1, A-2
 - critical toxic effect 7-7, 8-4, 8-10, 8-15
 - critical study 7-7
 - definition 7-1, 7-2, 8-2, A-2

Risk assessment reviewer 1-2, 9-1, 9-3, 9-9 to 9-14

Risk assessor
definition 1-2
tools for documentation 9-1 to 9-8

Risk characterization 1-6, 1-7, 8-1

Risk information in the RI/FS process 1-3 to 1-10

Risk manager 1-2

RME. *See* Reasonable maximum exposure

ROD. *See* Record of Decision

Route-to-route extrapolation 7-16

Routine analytical services. *See* Contract Laboratory Program

RPM. *See* Remedial project manager

S

Salinity 4-7, 4-14, 6-5

Saltwater incursion extent 4-7

Sample Management Office 4-1, 4-2, 5-1, 5-5

Sample quantitation limit 5-1. *See also* Quantitation limit

Samples. *See* Sampling

Sampling

- annual/seasonal cycle 4-20
- composite 4-11, 4-14, 4-19
- cost 4-10, 4-17, 4-18, 4-20, 4-21
- depth 4-7, 4-11, 4-12, 4-19
- devices 4-21
- grab 4-19
- purposive 4-9, 4-10, 4-12, 4-18, 4-19
- radionuclides 10-10 to 10-16
- random 4-9, 4-12, 4-18 to 4-20
- routes of contaminant transport 4-10 to 4-16
- strategy 4-16
- systematic 4-18, 4-19

Sampling and analysis plan 1-4, 4-1, 4-2, 4-3, 4-22 to 4-24

SAP. *See* Sampling and analysis plan

SARA. *See* Superfund Amendments and Reauthorization Act of 1986

SAS. *See* Special analytical services

Scoping
meeting 4-3, 4-18, 4-22, 4-23, 9-15, 10-15
of project 1-3 to 1-5, 1-8, 2-7, 3-2, 3-3

SDI. *See* Subchronic daily intake

SEAM. *See* Superfund Exposure Assessment Manual

Segregation of hazard indices 8-14, 8-15

Selection of remedy. *See* Remedy selection

Semi-volatile organic chemical 5-1

SI. *See* International System of Units, Preliminary assessment/site inspection

Site discovery or notification 2-4

Site inspection. *See* Preliminary assessment/site inspection

Skin 5-29, 7-16, 10-4, 10-6, 10-22, 10-29. *See also* Dermal

Slope factor 5-9, 5-21, 7-3, 7-11 to 7-13, 7-16, 8-1, 8-2 to 8-7, 8-10 to 8-12, 10-2, 10-33, A-1 to A-4

SMO. *See* Sample management office

Soil data collection 4-11
and ground water 4-12
depth of samples 4-12
heterogeneity 4-11
hot spots 4-11

Solubility 6-12

Sorption 6-27

SOW. *See* Statements of work

Special analytical services. *See* Contract Laboratory Program

-
- Specific organ 4-7, 10-7, 10-22
- SPHEM. *See Superfund Public Health Evaluation Manual*
- SQL. *See Sample quantitation limit*
- Stability class 4-7
- Statements of work. *See Contract Laboratory Program*
- Statistics
- and background 4-8 to 4-10, 5-18
 - certainty 4-8, 4-17, 4-18
 - methods 4-8, 4-18
 - power 4-9, 4-18
 - sampling strategy 4-16 to 4-20
 - variability 4-9, 4-18
- Structure-activity studies 7-5
- Subchronic daily intake 6-1, 6-2, 6-23, 7-1, 8-1
- Superfund. *See Comprehensive Environmental Response, Compensation, and Liability Act of 1980*
- Superfund Amendments and Reauthorization Act of 1986 1-11, 2-1 to 2-4
- Superfund Exposure Assessment Manual* 2-1, 2-8, 6-1
- Superfund Public Health Evaluation Manual* 1-1, 2-8
- SVOC. *See Semi-volatile organic chemical*
- T
- T. *See Tissue*
- TAL. *See Target analyte list*
- Target analyte list 4-1, 4-2, 5-5, 5-8, 5-17
- Target compound list 4-1, 4-2, 4-22, 5-1, 5-5, 5-8, 5-17, 5-21, 10-20
- TCL. *See Target compound list*
- Tentatively identified compound 4-1, 5-1, 5-13, 5-17, 5-18
- Thermocline 4-7
- TIC. *See Tentatively identified compound*
- Tidal cycle 4-7, 4-14
- Tissue 10-1
- TOC. *See Total organic carbon*
- Tools
- documentation 9-1 to 9-8
 - management 9-13 to 9-17
 - review 9-3, 9-9 to 9-14
- Topography 4-7
- Total organic carbon 5-1
- Total organic halogens 5-1
- TOX. *See Total organic halogens*
- Toxicity assessment 1-6, 1-7, 7-1, 7-4, 10-27 to 10-32
- Toxicity values
- absorbed vs administered dose 7-10, A-1
 - definition 7-3
 - generation of 7-16
 - hierarchy of information 7-15
 - oral 7-16, 10-33, A-2
 - radiation 10-22, 10-32
 - reducing number of chemicals 5-21, 5-23
- Transfer coefficients 6-32
- Transformation 5-20, 6-27, 7-5, 10-2, 10-3, 10-5
- Treatability 5-21
- Trip blanks. *See Blanks*
-

U

UFs. *See* Uncertainty factors

Uncertainty analysis

exposure 6-17, 6-34, 6-47, 6-49 to 6-51, 8-18, 8-22
factors 7-7 to 7-10, 8-4, 8-8, 8-9, 8-17, 8-18, 8-20, 8-22
first-order analysis 8-20
model applicability and assumptions 6-50, 8-18 to 8-22
Monte Carlo simulation 8-20
multiple substance exposure 8-22
parameter value 8-19
qualitative 8-20, 8-21
quantitative 8-19, 8-20
radiation 10-27, 10-33
risk 8-17
semi-quantitative 8-20
toxicity 7-19, 7-20, 8-22

Uncertainty factors. *See* Uncertainty analysis -- factors

Unit risk 7-13

U.S. Geological Survey 6-1, 6-6

USGS. *See* U.S. Geological Survey

V

Vapor pressure 6-12

VOC. *See* Volatile organic chemical

Volatile organic chemical 4-2, 5-1, 5-17, 6-31

W

Water hardness 4-7

Weighting factor 10-1, 10-2, 10-7

Weight-of-evidence classification 5-20, 7-3, 7-9, 7-11, 8-2, 8-4, 8-7, 8-10

Whole body 4-7, 4-16, 6-31, 10-6, 10-7

Workplan 4-1, 4-4, 4-22 to 4-24, 9-15

W_T. *See* Weighting factorx
